CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/WMM/Gradation/2022-23

08.06.2022

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2021)
Date of Testing	:	08.06.2022
Report Issue Date	:	08.06.2022

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	125	125	2.5	97.5	95-100
22.4	1510	1635	32.70	67.30	60-80
11.2	1015	2650	53.00	47.00	40-60
4.75	535	3185	63.70	36.30	25-40
2.36	480	3665	73.30	26.70	15-30
0.600	485	4150	83.00	17.00	8-22
0.075	695	4845	96.90	3.10	0-5

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/WMM/Gradation/2022-23 08.06.2022

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2021)
Date of Testing	:	08.06.2022
Report Issue Date	:	08.06.2022

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	85	85	1.7	98.3	95-100
22.4	1620	1705	34.10	65.90	60-80
11.2	1150	2855	57.10	42.90	40-60
4.75	580	3435	68.70	31.30	25-40
2.36	430	3865	77.30	22.70	15-30
0.600	495	4360	87.20	12.80	8-22
0.075	525	4885	97.70	2.30	0-5

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

For M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BTHR/W.No.12/WMM/Gradation/2022-23 08.06.2022

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2021)
Date of Testing	:	08.06.2022
Report Issue Date	:	08.06.2022

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	125	125	2.5	97.5	95-100
22.4	1295	1420	28.40	71.60	60-80
11.2	1260	2680	53.60	46.40	40-60
4.75	595	3275	65.50	34.50	25-40
2.36	415	3690	73.80	26.20	15-30
0.600	555	4245	84.90	15.10	8-22
0.075	655	4900	98.00	2.00	0-5

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶಿಥಿಕಿಳ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

****

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/WMM/AIV/2022-23

08.06.2022

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2021)
Date of Testing	:	08.06.2022
Report Issue Date	:	08.06.2022

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	304	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.30	21.45	21.37

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

****

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/WMM/Shape.T/2022-23 08.06.2022

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2021)
Date of Testing	:	08.06.2022
Report Issue Date	:	08.06.2022

Sl.No.	Description	Result
1	Flakiness Index	12.12%
2	Elongation Index	13.20%
3	Combined Flakiness & Elongation Index	25.32%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/QB(DBM)/2022-23 20.06.2022

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Bitumen
Source/ Location	:	Hot Mix Plant, Bangalore.
Sample Received on	:	18.06.2022
Period of Testing	:	18.06.2022 to 20.06.2022
Report Issue Date	:	20.06.2022

The results of the tests conducted on the bitumen sample are as follows:

Sl. No	Description	Test Method as per IS	Test Result	Requirement as per IS:73:2013 (RA-2018) for VG 30
1	Penetration at 25 ^{0}C, 1/10 mm	IS :1203 -1978 (RA-2019)	50	Min. 45
2	Softening point (R & B), ^{0}C	IS :1205 -1978 (RA-2019)	48	Min. 47
3	Ductility at 27^{0}C, cm	IS :1208 -1978 (RA-2019)	>100	Min. 40
4	Flash Point, ^{0}C	IS :1209 -1978 (RA-2019)	298	Min. 220

* Information is furnished by the Customer/Representative

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples collected from the site.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

BSCIC ISO 9001 REGISTERED JAS-ANZ

20.06.2022

b No.: CTCE/BBMP/BTHR/W.No.12/DBM/AIV/2022-23

TEST REPORT ON AGGREGATE IMPACT VALUE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Hot Mix Plant, Bangalore
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2021)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	20.06.2022
Report Issue Date	:	20.06.2022

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	303	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.30	21.50	21.40

* Information is furnished by the Customer/Representative

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

For M/s. Civil-Tech Consultants & Engineers

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/DBM/Shape.T/2022-23 20.06.2022

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Hot Mix Plant, Bangalore
Test Method as per	:	IS - 2386(Part -1) : 1963 (RA-2021)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	20.06.2022
Report Issue Date	:	20.06.2022

Sl.No.	Description	Result
1	Flakiness Index	12.12%
2	Elongation Index	13.20%
3	Combined Flakiness & Elongation Index	25.32%

* Information is furnished by the Customer/Representative

Comments:

→ Maximum allowable Flakiness & Elongation Index for Dense Graded Bituminous Macadam is 30%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/DBM/Stripping/2022-23

22.06.2022

TEST REPORT ON STRIPPING VALUE OF ROAD AGGREGATE (STATIC IMMERSION TEST)

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Test Method as per	:	IS: 6241
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	22.06.2022
Report Issue Date	:	22.06.2022

Type of binder	: VG 30
Percentage of binder used	: 5.0% by wt.
Total weight of aggregate	: 200 g
Total weight of binder	: 10.00 g
Temperature of water-bath	: 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.4	3.30	96.70
2	3.2		
3	3.3		

* Information is furnished by the Customer/Representative

Comments:

→ Minimum allowable Aggregate retained coating for Dense Graded Bituminous Macadam is 95%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi [illegible] Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/DBM/Sp.Wt/2022-23 22.06.2022

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION TEST

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Test Method as per	:	IS - 2386(Part -3) : 1963 (RA-2021)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	22.06.2022
Report Issue Date	:	22.06.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2018	2019	2017	
2	Weight of basket suspended in water	W_2 g	750	750	750	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1268	1269	1267	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2017	2019	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	748	748	752	
6	Weight of oven dried aggregate	W_4 g	2000	2005	2007	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.674	2.680	2.669	2.674
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.732	2.724	2.712	2.723
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.80%	0.60%	0.60%	0.67%

* Information is furnished by the Customer/Representative

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of issue.

M/s. Civil-Tech Consultants & Engineers

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com